

Natural uranium isotopes (^{238}U , ^{235}U and ^{234}U)

Solids

Solids are dissolved using a mixture of mineral acids, including hydrofluoric acid. Uranium is isolated from the resulting solution by anion-exchange chromatography followed by extraction chromatography. The purified uranium is then electrodeposited onto a stainless-steel disc, which is then measured by alpha spectrometry. Uranium-232 is used as an internal standard for the procedure.